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(FILE 'HOME' ENTERED AT 10:53:31 ON 30 APR 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 10:53:43 ON
30 APR 2003

SEA (FUSION PROTEIN)

344 FILE ADISCTI
122 FILE ADISINSIGHT
60 FILE ADISNEWS
1418 FILE AGRICOLA
103 FILE ANABSTR
233 FILE AQUASCI
547 FILE BIOBUSINESS
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22681 FILE BIOSIS
10053 FILE BIOTECHABS
10053 FILE BIOTECHDS
15798 FILE BIOTECHNO
2949 FILE CABA
18907 FILE CANCERLIT
32772 FILE CAPLUS
1058 FILE CEABA-VTB
27 FILE CEN
326 FILE CIN
257 FILE CONFSCI
44 FILE CROPU
1071 FILE DDFU
67763 FILE DGENE
232 FILE DRUGNL
1418 FILE DRUGU
139 FILE DRUGUPDATES
240 FILE EMBAL
16440 FILE EMBASE
12514 FILE ESBIODASE
996 FILE FEDRIP
43 FILE FROSTI
301 FILE FSTA
5044 FILE GENBANK
7 FILE HEALSAFE
3791 FILE IFIPAT
1638 FILE JICST-EPLUS
7 FILE KOSMET
11735 FILE LIFESCI
3 FILE MEDICONF
50771 FILE MEDLINE
3 FILE NIOSHTIC
148 FILE NTIS
22 FILE OCEAN
6255 FILE PASCAL
106 FILE PHAR
49 FILE PHARMAML
3 FILE PHIC
211 FILE PHIN
1258 FILE PROMT
19471 FILE SCISEARCH
17609 FILE TOXCENTER
21926 FILE USPATFULL
434 FILE USPAT2

1 FILE VETB
189 FILE VETU
4903 FILE WPIDS
4903 FILE WPINDEX
L1 QUE (FUSION PROTEIN)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, CANCERLIT, TOXCENTER, EMBASE,
BIOTECHNO' ENTERED AT 10:55:41 ON 30 APR 2003

L2 536 S L1 AND (CELLULOSE BINDING DOMAIN OR CBD)
L3 7 S L2 AND DETERGENT
L4 7 DUP REM L3 (0 DUPLICATES REMOVED)
L5 5 S L2 AND (DETERGENT(W) COMPOSITION OR BENEFIT(W) AGENT OR LAUNDR
L6 5 DUP REM L5 (0 DUPLICATES REMOVED)

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:126201 CAPLUS
DOCUMENT NUMBER: 136:196191
TITLE: Stain or textile fiber composition binding
domain-containing chimeric enzymes for use in
detergent
INVENTOR(S): Shimotsuura, Isao; Tobe, Seiichi
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002051768	A2	20020219	JP 2000-244723	20000811

PRIORITY APPLN. INFO.: JP 2000-244723 20000811

AB Chimeric enzymes comprising a peptide having affinity for stain or textile fiber compn. and an enzyme having the similar affinity, including non-cellulolytic enzymes, are disclosed. Peptides having affinity for polysaccharides, proteins, or lipids, such as mutase mutein binding domain, amylase starch-binding domain, glucan-binding domain of .beta.-glucosidase or glucosyltransferase, glucan-binding protein, chitin-binding protein, .beta.-1,3-glucan-binding protein, cellulose-binding protein, lectin, cellulase, xylanase, mannanase, chitinase, and other polysaccharide-degrading enzyme and **cellulose-binding domain (CBD)**-contg. proteins of family III, IV, VII, VIII, IX, or X are used. A peptide from proteins involved in keratin biosynthesis or degrdn., or keratin binding domain of an enzyme can also be used. **Detergent** contg. the chimeric enzyme is claimed. Prepn. of chimeric enzymes comprising alk. protease, amylase, lipase, pectinase, laccase, peroxidase, and glucose oxidase with peptides mentioned above, and demonstration of improved cleaning power as **detergent** compn., are described.

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:472869 CAPLUS
DOCUMENT NUMBER: 135:63062
TITLE: **Detergent** composition comprising
fusion protein for benefit agent
binding
INVENTOR(S): Davis, Paul James; Parry, Neil James
PATENT ASSIGNEE(S): Unilever N.V., Neth.; Unilever PLC; Hindustan Lever
Ltd.
SOURCE: PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001046357	A2	20010628	WO 2000-EP12532	20001208
WO 2001046357	A3	20020613		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 2001023646 A5 20010703 AU 2001-23646 20001208
 EP 1240298 A2 20020918 EP 2000-987384 20001208
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 BR 2000016570 A 20021001 BR 2000-16570 20001208
 US 2001036911 A1 20011101 US 2000-742690 20001220
 US 2002155972 A1 20021024 US 2001-998660 20011129
 PRIORITY APPLN. INFO.: EP 1999-310428 A 19991222
 WO 2000-EP12532 W 20001208
 US 2000-742690 A3 20001220

AB A **fusion protein** advantageously used in a
detergent compn. to deliver the benefit agent to a fabric,
 comprises a **cellulose binding domain** and a
 domain having a high binding affinity for another ligand preferably a
 benefit agent such as a fabric softening agents, fragrances, perfumes,
 polymeric lubricants, photoprotective agents, latexes, resins, dye
 fixative agents, encapsulated materials, antioxidants, insecticides, soil
 repelling agents, a soil release agents and etc.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:472868 CAPLUS

DOCUMENT NUMBER: 135:78577

TITLE: Method of delivering benefit agent to fabric via
 antibody/**fusion protein** as binding
 molecule

INVENTOR(S): Howell, Steven; Little, Julie; Van Der Logt, Cornelis
 Paul Erik; Parry, Neil James

PATENT ASSIGNEE(S): Unilever N.V., Neth.; Unilever Plc; Hindustan Lever
 Ltd

SOURCE: PCT Int. Appl., 69 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001046356	A2	20010628	WO 2000-EP12529	20001208
WO 2001046356	A3	20020110		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000016659	A	20020903	BR 2000-16659	20001208
EP 1246898	A2	20021009	EP 2000-990711	20001208
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002019324	A1	20020214	US 2000-742693	20001220
PRIORITY APPLN. INFO.: EP 1999-310431 A 19991222 WO 2000-EP12529 W 20001208				

AB A method of delivering a benefit agent to fabric for exerting a pre-detd.
 activity useful for stain removal, perfume delivery, and treating collars
 and cuffs for wear, is provided, wherein the fabric is pre-treated with a
 multi-specific binding mol. which has a high binding affinity to said
 fabric through one specificity and is capable of binding to said benefit

agent through another specificity, followed by contacting said pre-treated fabric with said benefit agent, to enhance said pre-detd. activity to said fabric. Preferably, the binding mol. is an antibody or fragment thereof, or a **fusion protein** comprising a **cellulose binding domain** and a domain having a high binding affinity to another ligand which is directed to said benefit agent such as glucose oxidase.

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:720308 CAPLUS

DOCUMENT NUMBER: 133:280644

TITLE: Process for partitioning of proteins

INVENTOR(S): Penttila, Merja; Nakari-Setälä, Tiina; Fagerström, Richard; Selber, Klaus; Kula, Maria-regina; Linder, Markus; Tjerneld, Folke

PATENT ASSIGNEE(S): Valtion Teknillinen Tutkimuskeskus, Finland

SOURCE: PCT Int. Appl., 109 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000058342	A1	20001005	WO 2000-FI249	20000324
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1163260	A1	20011219	EP 2000-914217	20000324
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002543766	T2	20021224	JP 2000-608042	20000324
NO 2001004534	A	20011126	NO 2001-4534	20010918
PRIORITY APPLN. INFO.:			FI 1999-667	A 19990325
			FI 1999-1782	A 19990820
			WO 2000-FI249	W 20000324

AB The present invention provides a method for isolation and purifn. of proteins in aq. two-phase systems (ATPS). Specifically the invention provides processes for partitioning of proteins in ATPS by fusing the protein of interest to a targeting protein which has the ability of carrying the desired protein into one of the phases. Thus, the core of endoglucanase I (EGI) from *Trichoderma reesei* was produced in fed-batch ferms. as a **fusion protein** with the small protein hydrophobin I (HFBI). The fermn. broth was clarified by centrifugation, and the EGI-HFBI **fusion protein** was sepd. from the supernatant by ATPS using 2% (wt./wt.) of the **detergent** C12-18-EO5. The purified **fusion protein** enriched in the top **detergent** phase was then removed by extn. with isobutanol.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:359641 CAPLUS

DOCUMENT NUMBER: 131:29287

TITLE: Pectate lyases from *Bacillus* species suitable for industrial processes

INVENTOR(S): Andersen, Lene Nonboe; Schulein, Martin; Lange, Niels

Erik Krebs; Bjornvad, Mads Eskelund; Moller, Soren;
 Glad, Sanne O. Schroder; Kauppinen, Markus Sakari;
 Schnorr, Kirk; Kongsbaek, Lars
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
 SOURCE: PCT Int. Appl., 97 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9927084	A1	19990603	WO 1998-DK515	19981124
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6124127	A	20000926	US 1998-73684	19980506
US 6258590	B1	20010710	US 1998-184217	19981102
CA 2310562	AA	19990603	CA 1998-2310562	19981124
AU 9914825	A1	19990615	AU 1999-14825	19981124
EP 1032658	A1	20000906	EP 1998-958820	19981124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
BR 9815007	A	20001003	BR 1998-15007	19981124
US 6187580	B1	20010213	US 1998-198955	19981124
JP 2001526022	T2	20011218	JP 2000-522226	19981124
WO 2000026464	A2	20000511	WO 1999-US24489	19991027
WO 2000026464	A3	20000810		
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 9914968	A	20010710	BR 1999-14968	19991027
EP 1159479	A2	20011205	EP 1999-960137	19991027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529610	T2	20020910	JP 2000-579830	19991027
US 6368843	B1	20020409	US 2000-694531	20001023
US 2002115194	A1	20020822	US 2001-789266	20010220
US 2002142438	A1	20021003	US 2002-72152	20020207
PRIORITY APPLN. INFO.:				
			DK 1997-1343	A 19971124
			DK 1997-1344	A 19971124
			US 1998-73684	A 19980506
			US 1998-184217	A 19981102
			US 1997-67240P	P 19971202
			US 1997-67249P	P 19971202
			US 1998-198955	A1 19981124
			WO 1998-DK515	W 19981124
			WO 1999-US24489	W 19991027
			US 2000-694531	A1 20001023
AB	A novel group of pectate lyases comprising the amino acid sequence Asn-Leu-Asn-Ser-Arg-Val-Pro (NLNSRVP) belonging to Family 1 of polysaccharide lyases have good performance in industrial processes under neutral or alk. conditions such as laundering and textile processing. The pectate lyase may be derivable from Bacillus species. Sequences claimed in the patent were not available in the document.			

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:359640 CAPLUS

DOCUMENT NUMBER: 131:15715

TITLE: Pectin-degrading enzymes from Bacillus licheniformis
and their industrial applications

INVENTOR(S): Andersen, Lene Nonboe; Schulein, Martin; Lange, Niels
Erik Krebs; Bjornvad, Mads Eskelund; Schnorr, Kirk

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9927083	A1	19990603	WO 1998-DK514	19981124
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6124127	A	20000926	US 1998-73684	19980506
CA 2310806	AA	19990603	CA 1998-2310806	19981124
AU 9914339	A1	19990615	AU 1999-14339	19981124
EP 1032657	A1	20000906	EP 1998-958214	19981124
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI			
BR 9815015	A	20001003	BR 1998-15015	19981124
US 6187580	B1	20010213	US 1998-198955	19981124
JP 2001524310	T2	20011204	JP 2000-522225	19981124
US 6368843	B1	20020409	US 2000-694531	20001023
US 2002142438	A1	20021003	US 2002-72152	20020207
PRIORITY APPLN. INFO.:			DK 1997-1344	A 19971124
			US 1998-73684	A 19980506
			DK 1997-1343	A 19971124
			US 1997-67240P	P 19971202
			US 1997-67249P	P 19971202
			US 1998-184217	A2 19981102
			US 1998-198955	A1 19981124
			WO 1998-DK514	W 19981124
			US 2000-694531	A1 20001023

AB Pectin-degrading enzymes derived from or endogenous to Bacillus licheniformis or other Bacillus species which are .gtoreq.99% homologous to Bacillus Licheniformis based on aligned 16S rDNA sequences have optimum activity at pH higher than 8. The pectin-degrading enzymes belong to the enzyme classes pectate lyases (EC 4.2.2.2), pectin lyases (EC 4.2.2.10), and polygalacturonases (EC 3.2.1.15) and are useful in industrial processes under alk. conditions such as in textile processing and as an active ingredient, e.g. in laundry **detergents** and hard surface cleaning products. Gene and deduced amino acid sequences are provided for two pectate lyases, a pectin lyase, and a polygalacturonase.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:663445 CAPLUS

DOCUMENT NUMBER: 115:263445

TITLE: Fusion proteins of ligand binding partners and stable plasma proteins and their manufacture and uses
 INVENTOR(S): Capon, Daniel J.; Lasky, Laurence A.
 PATENT ASSIGNEE(S): Genentech, Inc., USA
 SOURCE: PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9108298	A2	19910613	WO 1990-US6849	19901121
WO 9108298	A3	19911017		
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
EP 526452	A1	19930210	EP 1991-901202	19901121
EP 526452	B1	20010221		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 05503009	T2	19930527	JP 1991-501520	19901121
AT 199261	E	20010315	AT 1991-901202	19901121
JP 2002325589	A2	20021112	JP 2002-26825	19901121
HK 1013298	A1	20011012	HK 1998-114595	19981222

PRIORITY APPLN. INFO.:
 US 1989-444625 A 19891122
 US 1989-440625 A 19891122
 JP 1991-501520 A3 19901121
 WO 1990-US6849 W 19901121

AB Novel polypeptides, comprising a ligand binding partner fused to a stable plasma protein capable of extending the in vivo plasma half-life of the ligand binding partner, are manufd. by mol. cloning techniques. These chimeric proteins are formulated and administered for antiviral, neuromodulatory, or immunomodulatory therapy and for use in modulation of cell adhesion. They are also useful for affinity purifn. and diagnostic assays. (no data). Murine lymphocyte homing receptor (MLHR) glycoprotein was isolated and immunoaffinity purified from **detergent**-treated mouse spleens using monoclonal antibody Mel-14. The N-terminal amino acid sequence was detd. and used to construct probes to screen a murine spleen cDNA library and eventually obtain a clone for detg. the complete DNA sequence of MLHR. The deduced protein sequence shows homol. with many other proteins and has the motifs, from the N-terminal end: signal sequence, sugar binding domain, EGF domain, duplicated complement binding domain (CBD), transmembrane domain, and charged cytoplasmic region at the C-terminal end. Human LHR sequences were also detd. Truncated MLHR-IgG chimeras were prepd. contg. the lectin, lectin-EGF, or lectin-EGF-CBD domains of MLHR fused to a human heavy chain .gamma.1 region just upstream of the hinge domain such that these chimeras contain the 2 cysteine residues of the hinge responsible for Ig dimerization as well as the CH2 and CH3 const. regions. A human heavy chain IgG1 const. region cassette was used. The 3 chimeric proteins were efficiently synthesized and dimerized in the absence of any light chain prodn. Characterization studies were done.